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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/057,887	01/29/2002	Sekiji Nishino	826.1788	2402

21171 7590 11/07/2003
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EXAMINER

LE, JOHN H

ART UNIT	PAPER NUMBER
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2863

DATE MAILED: 11/07/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/057,887

Applicant(s)

NISHINO ET AL.

Examiner

John H Le

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 7-9 is/are rejected.
- 7) ☒ Claim(s) 2-6 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 January 2002 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Arguments

1. This office action is in response to applicant's response received on 09/30/2003.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 7, 8, and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Ohtsu et al. (USP 5,745,370).

Regarding claims 1, 7, 8, and 9, Ohtsu et al. teach a device generating data input to an electromagnetic field intensity calculating device calculating an intensity of an electromagnetic field emitted from an electric circuit device having a metal cabinet (e.g. Figs. 1, 19A), comprising: a surface data extracting unit 101 extracting surface data of the metal cabinet from three-dimensional data of the electric circuit device (e.g. Col.4, lines 5-10, Figs. 1, 19A); a mesh partitioning unit 110 partitioning a surface corresponding to the surface data into quadrilateral meshes (e.g. Col.4, lines 12-14, Figs. 9A, 9B, 9C); and a generated data outputting unit outputting data partitioned into meshes to the electromagnetic field intensity calculating device 112 (e.g. Col.4, lines 17-28).

Allowable Subject Matter

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3. Claims 2-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 2, none of the prior art of record teaches or suggests the combination of an input data generating method generating data input to an electromagnetic field intensity calculating device, which calculates an intensity of an electromagnetic field emitted from an electric circuit device having a metal cabinet, wherein the method comprising steps of extracting surface data of the metal cabinet from three-dimensional data of the electric circuit device; partitioning a surface corresponding to the surface data into quadrilateral meshes; wherein the method further comprising steps of extracting data of a same surface composed of a plurality of surfaces existing on a front or a back of a metal plate which configures the metal cabinet from a plurality of pieces of surface data, if the surface data is composed of the plurality of pieces of surface data including the front and the back of the metal plate; partitioning each of the plurality of surfaces configuring the same surface into quadrilateral meshes; and outputting data partitioned into meshes to the electromagnetic field intensity calculating device. It is these limitations as they are claimed in the combination, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

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Regarding claim 5, none of the prior art of record teaches or suggests the combination of an input data generating method generating data input to an electromagnetic field intensity calculating device, which calculates an intensity of an electromagnetic field emitted from an electric circuit device having a metal cabinet, wherein the method comprising steps of extracting surface data of the metal cabinet from three-dimensional data of the electric circuit device; partitioning a surface corresponding to the surface data into quadrilateral meshes; wherein the method further comprising steps of partitioning each of a plurality of surfaces into quadrilateral meshes, if the surface data of the metal cabinet is data corresponding to the plurality of surfaces; making a comparison between coordinates of partitioning points on two sides which can possibly be a side shared by contiguous surfaces among the plurality of surfaces; recognizing data of the partitioning points to be data shared by the contiguous surfaces, if the coordinates of the partitioning points are determined to match within a preset tolerance; and outputting data partitioned into meshes, which include the shared data, to the electromagnetic field intensity calculating device. It is these limitations as they are claimed in the combination, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Regarding claim 6, none of the prior art of record teaches or suggests the combination of an input data generating method generating data input to an electromagnetic field intensity calculating device, which calculates an intensity of an electromagnetic field emitted from an electric circuit device having a metal cabinet,

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wherein the method comprising steps of extracting surface data of the metal cabinet from three-dimensional data of the electric circuit device; partitioning a surface corresponding to the surface data into quadrilateral meshes; wherein the method further comprising steps of repartitioning the quadrilateral meshes by aligning the surface corresponding to the surface data of the metal cabinet with a shape of a surface whose material is different from the metal cabinet, and which is superposed on the corresponding surface and has an area smaller than the corresponding surface, exists, after the corresponding surface is partitioned into the quadrilateral meshes; and outputting data which is partitioned into meshes and further repartitioned to the electromagnetic field intensity calculating device. It is these limitations as they are claimed in the combination, which have not been found, taught or suggested in the prior art of record, that make these claims allowable over the prior art.

Response to Arguments

4. Applicant's arguments filed 09/30/2003 have been fully considered but they are not persuasive:

-Applicant argues that the prior art fails to teach or suggest "partitioning a surface data into quadrilateral meshes so that data portioned into meshes can be output to an electromagnetic field intensity calculating device".

- Ohtsu et al. teach "partitioning a surface data into quadrilateral meshes so that data portioned into meshes can be output to an electromagnetic field intensity calculating device" as discussed above.

Conclusion

5. Specifically Ohtsu et al. has been added to second ground of rejection.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H. Le whose telephone number is (703) 605-4361.

The examiner can normally be reached on 9:00 - 5:30.

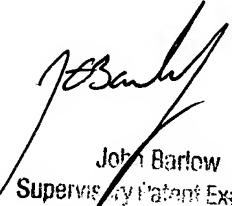
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on (703) 308-3126. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

John H. Le

Patent Examiner-Group 2863

November 1, 2003



John Barlow
Supervisory Patent Examiner
Technology Center 2800